

09/674794

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DICTIONARY FILE UPDATES: 22 AUG 2005 HIGHEST RN 861291-85-2

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\* effective March 20, 2005. A new display format, IDERL, is now \*  
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\*  
\*\*\*\*\*

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<http://www.cas.org/ONLINE/DBSS/registryss.html>.

L1 3715 GGGSGGGSGGGSGGGSGGGSG|GGPGS/SQSP

FILE 'CAPLUS' ENTERED AT 14:44:40 ON 23 AUG 2005  
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FILE COVERS 1907 - 23 Aug 2005 VOL 143 ISS 9  
FILE LAST UPDATED: 22 Aug 2005 (20050822/ED)

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This file contains CAS Registry Numbers for easy and accurate

Searcher : Shears 571-272-2528

## substance identification.

L2 1481 S L1  
 L3 8 S L2 AND ANTIBOD?(S) CONSTRUCT

L3 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
 ED Entered STN: 01 Jul 2005  
 ACCESSION NUMBER: 2005:570784 CAPLUS  
 DOCUMENT NUMBER: 143:76835  
 TITLE: Anti-carcinoembryonic antigen (CEA) single-chain  
 Fv antibodies  
 INVENTOR(S): Fox, Judith A.; Harding, Fiona A.; Schellenberger,  
 Volker  
 PATENT ASSIGNEE(S): Genencor International, Inc., USA  
 SOURCE: PCT Int. Appl., 156 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058236	A2	20050630	WO 2004-US41429	20041210
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2003-529354P	P 20031212
			US 2004-577255P	P 20040604

AB The present invention relates to anti-(carcinoembryonic antigen)  
 single-chain Fv **antibodies** (CAB mols.), **antibody**  
 -directed enzyme prodrug therapy (ADEPT) **constructs** directed  
 against CEA, and their use in therapy.

IT **855815-94-0**

RL: PRP (Properties)  
 (unclaimed sequence; anti-carcinoembryonic antigen (CEA)  
 single-chain Fv antibodies)

L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN  
 ED Entered STN: 06 Jan 2005  
 ACCESSION NUMBER: 2005:8670 CAPLUS  
 DOCUMENT NUMBER: 142:87720  
 TITLE: Myxococcus xanthus genome and proteome sequences  
 INVENTOR(S): Goldman, Barry S.; Hinkle, Gregory J.; Slater,  
 Steven C.; Wiegand, Roger C.  
 PATENT ASSIGNEE(S): Monsanto Technology, LLC, USA  
 SOURCE: U.S., 25 pp.  
 CODEN: USXXAM

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 4  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6833447	B1	20041221	US 2001-902540	20010710
US 6833447	B1	20041221	US 2001-902540	20010710
PRIORITY APPLN. INFO.:			US 2000-217883P	P 20000710
			US 2001-902540	A 20010710

AB The present invention relates to nucleic acid sequences from the bacterium, *Myxococcus xanthus* and, in particular, to genomic DNA sequences. Approx. 38,000 genomic nucleotide sequence traces derived from a double-stranded plasmid library prepared from *Myxococcus xanthus* strain DK1622 are generated and assembled into 1849 contig and singleton sequences, providing a set of about 7842 genes or partial genes and 7134 proteins. A series of predictive and homol. based methods identify proteins involved in polyketide synthesis, serine/threonine protein kinases, antibiotic resistance proteins, DNA modification and restriction enzymes, sigma factors, and nitrate pathway proteins. The invention also encompasses oligonucleotides including primers, e.g. useful for amplifying nucleic acid mols., and collections of nucleic acid mols. and oligonucleotides, e.g. in microarrays. The invention also provides constructs and transgenic cells and organisms comprising nucleic acid mols. of the invention. The invention also relates to methods of using the disclosed nucleic acid mols., oligonucleotides, proteins, fragments of proteins, and **antibodies**, for example, for gene identification and anal., and preparation of **constructs** and transgenic cells and organisms. [This abstract record is one of four records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT **817294-06-7 817317-86-5**  
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; *Myxococcus xanthus* genome and proteome sequences)

L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 17 Dec 2004

ACCESSION NUMBER: 2004:1080934 CAPLUS

DOCUMENT NUMBER: 142:50242

TITLE: Improved expression and secretion of neublastin using genetic constructs with heterologous signal peptides and deleting the pro-region

INVENTOR(S): Wahlberg, Lars U.; Groenborg, Mette; Kusk, Philip; Tornøe, Jens; Pederson, Nels E.; Sisk, William P.

PATENT ASSIGNEE(S): Nsgene A/S, Den.; Biogen Idec Ma, Inc.

SOURCE: PCT Int. Appl., 168 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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Searcher : Shears 571-272-2528

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WO 2004108760      A2      20041216      WO 2004-DK411      20040610
WO 2004108760      A3      20050407
W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,
    CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
    GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,
    KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
    MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
    SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
    VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
    AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
    DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL,
    PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
    GW, ML, MR, NE, SN, TD, TG
US 2005089960      A1      20050428      US 2004-864891      20040610
US 2005158824      A1      20050721      US 2004-957221      20041001
PRIORITY APPLN. INFO.:      DK 2003-861      A 20030610
US 2003-507483P      P 20031002

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AB The present invention concerns methods and compns. for producing a neublastin polypeptide as well as local delivery of neublastin to specific regions of the nervous system (including the central nervous system and the eye for example) by gene therapy. The biol. active neublastin polypeptide is produced from a construct not encoding naturally occurring neublastin pro-region, i.e. a construct comprising a nucleic acid with a promoter sequence operably linked to a nucleotide sequence encoding a signal peptide and a neublastin polypeptide, wherein said nucleotide sequence does not encode a neublastin pro-region.

IT 809295-95-2P 809295-96-3P, Neublastin, prepro-  
(human) 809295-99-6P, 25-140-Neublastin (human)  
809296-00-2P, 28-140-Neublastin (human) 809296-08-0P  
809296-09-1P 809296-15-9P 809296-20-6P  
809296-21-7P 809296-26-2P 809296-27-3P  
809296-32-0P 809296-33-1P

RL: BPN (Biosynthetic preparation); BUU (Biological use,  
unclassified); PRP (Properties); BIOL (Biological study); PREP  
(Preparation); USES (Uses)

(amino acid sequence; improved expression and secretion of  
neublastin using genetic constructs with heterologous signal  
peptides and deleting pro-region)

IT 809297-13-0

RL: PRP (Properties)

(unclaimed protein sequence; improved expression and secretion of  
neublastin using genetic constructs with heterologous signal  
peptides and deleting pro-region)

IT 809297-31-2

RL: PRP (Properties)

(unclaimed sequence; improved expression and secretion of  
neublastin using genetic constructs with heterologous signal  
peptides and deleting pro-region)

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 09 Jul 2004

ACCESSION NUMBER: 2004:550525 CAPLUS

DOCUMENT NUMBER: 141:87790

TITLE: Vector system comprising a nucleotide sequence

09/674794

coding for an antibody  
 INVENTOR(S): Kingsman, Alan John; Bebbington, Christopher  
 Robert; Carroll, Miles William; Ellard, Fiona  
 Margaret; Kingsman, Susan Mary; Myers, Kevin Alan;  
 Lamikanra, Abigail  
 PATENT ASSIGNEE(S): UK  
 SOURCE: U.S. Pat. Appl. Publ., 68 pp., Cont.-in-part of  
 U.S. Pat. Appl. 2003 83,290.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004131591	A1	20040708	US 2002-334235	20021230
WO 2000029428	A2	20000525	WO 1999-GB3859	19991118
WO 2000029428	A3	20001109		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6852703	B1	20050208	US 2000-445375	20000321
WO 2001036486	A2	20010525	WO 2000-GB4317	20001113
WO 2001036486	A3	20020510		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 2003083290	A1	20030501	US 2002-60585	20020129
PRIORITY APPLN. INFO.:			GB 1997-11579	A 19970604
			GB 1997-13150	A 19970620
			GB 1997-14230	A 19970704
			WO 1999-GB3859	A 19991118
			GB 2000-3527	A 20000215
			GB 2000-5071	A 20000302
			US 2000-445375	A2 20000321
			WO 2000-GB4317	A2 20001113
			US 2002-60585	A2 20020129

WO 1998-GB1627 W 19980604  
 GB 1998-25303 A 19981118  
 GB 1999-1739 A 19990127  
 GB 1999-17995 A 19990730

AB The authors disclose an expression vector cassette system comprising a nucleotide sequence coding for an antibody. In one example, the nucleotide sequence encodes a single-chain **construct** of an **antibody** targeted to the oncofetal glycoprotein 5T4.

IT 149298-29-3

RL: PRP (Properties)

(unclaimed sequence; vector system comprising a nucleotide sequence coding for an antibody)

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 24 Oct 2003

ACCESSION NUMBER: 2003:837306 CAPLUS

DOCUMENT NUMBER: 139:334817

TITLE: Identifying modulators for serine/threonine kinases using phospho-specific antibodies and kinase proteins fused with substrate proteins

INVENTOR(S): Suda, Mikiya; Shibahara, Megumi

PATENT ASSIGNEE(S): Glaxo Group Limited, UK

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003087394	A1	20031023	WO 2003-EP3988	20030415
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.:

US 2002-372662P P 20020415

AB A method is provided for identifying a modulator for serine/threonine kinase employing expression of fusion proteins of a kinase substrate, such as p53, and the serine/threonine kinase. The fusion protein between a substrate protein and a serine/threonine kinase is expressed in a cell, the cell incubated with a candidate modulator, and the level of phosphorylation of the substrate determined. Phosphorylation may be determined in many ways, including Western blotting and ELISA using phospho-specific antibodies. Protein p53 is chosen as substrate within the fusion protein **construct** based on the fact that

(1) p53 can be phosphorylated by multiple kinases such as Chk1/2, protein kinase A, and JNK kinase; (2) within p53 there are several phosphorylation sites; and (3) **antibodies** are com. available which recognize a particular phosphorylation site within p53. Preferred kinases can be derived from p38, JNK3, SGK, PLK1, YAK3, MAPKAPK2, MYT1, CDK5, ROCK1/2, and Chk1.

IT 615863-97-3 616522-70-4 616522-72-6

616522-74-8

RL: ANT (Analyte); ARG (Analytical reagent use); PRP (Properties);

ANST (Analytical study); USES (Uses)

(amino acid sequence; identifying modulators for serine/threonine kinases using phospho-specific antibodies and kinase proteins fused with substrate proteins)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 20 Mar 2003

ACCESSION NUMBER: 2003:219693 CAPLUS

DOCUMENT NUMBER: 138:253715

TITLE: Multimeric single chain tandem Fv-antibodies

INVENTOR(S): Le Gall, Fabrice; Kipriyanov, Sergey; Reusch, Uwe; Moldenhauer, Gerhard; Little, Melvyn

PATENT ASSIGNEE(S): Affimed Therapeutics AG, Germany

SOURCE: Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1293514	A1	20030319	EP 2001-122104	20010914
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2003025018	A2	20030327	WO 2002-EP10307	20020913
WO 2003025018	A3	20030828		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005508628	T2	20050407	JP 2003-528863	20020913
US 2005079170	A1	20050414	US 2003-489626	20020913
PRIORITY APPLN. INFO.:			EP 2001-122104	A 20010914
			WO 2002-EP10307	W 20020913

AB The authors disclose the preparation and characterization of multimeric tandem scFv-**antibody constructs**. A monomeric construct is comprised of one single-chain Fv fragment joined by a linker peptide to a second single-chain Fv fragment of the same or

different specificity. The linker peptides joining each pair of VH/VL domains in the tandem construct are not identical; the monomer contains a terminal dimerization domain to facilitate multimerization. In one example, a tandem scFv-antibody construct was prepared with specificity for CD3 and CD19.

IT 502771-42-8P 502771-44-0P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; preparation and characterization of multimeric tandem single-chain antibodies)

IT 149298-29-3

RL: PRP (Properties)

(linker peptide for preparation of multimeric tandem single-chain antibodies)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 08 Sep 2002

ACCESSION NUMBER: 2002:676155 CAPLUS

DOCUMENT NUMBER: 137:214226

TITLE: Use of mammalian retinoid-inducible serine carboxypeptidase gene in diagnosis and treatment of vascular diseases

INVENTOR(S): Miano, Joseph Michael; Streb, Jeffrey Williams; Chen, Jiyuan

PATENT ASSIGNEE(S): University of Rochester, USA

SOURCE: PCT Int. Appl., 129 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002068599	A2	20020906	WO 2002-US5560	20020222
WO 2002068599	A3	20040429		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2438827	AA	20020906	CA 2002-2438827	20020222
EP 1436390	A2	20040714	EP 2002-704448	20020222
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR			
& US 2004197784	A1	20041007	US 2004-468655	20040423
PRIORITY APPLN. INFO.:			US 2001-271183P	P 20010222
			US 2001-293097P	P 20010523

AB The present invention relates to an isolated retinoid inducible serine carboxypeptidase proteins or polypeptides, and the nucleic acid mols. encoding such a protein or polypeptide. Nucleic acid **constructs**, expression systems and host cells containing those nucleic acid mols., and **antibodies** raised against the proteins or polypeptides are also disclosed. The present invention also relates to methods for detecting a vascular disease or disorder, inhibiting smooth muscle cell growth, treating vascular hyperplasia, and inhibiting the activity of extracellular regulated kinase. The present invention also relates to a transgenic non-human animal lacking a gene encoding a retinoid inducible protein or polypeptide.

IT **456543-55-8 457048-38-3**

RL: PRP (Properties)

(unclaimed sequence; mammalian retinoid-inducible serine carboxypeptidase gene in diagnosis and treatment of vascular diseases)

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 12 Nov 1999

ACCESSION NUMBER: 1999:723065 CAPLUS

DOCUMENT NUMBER: 131:350246

TITLE: Multivalent Fv **antibody constructs** containing at least four variable domains and their use in diagnosis and therapy

INVENTOR(S): Little, Melvyn; Kipriyanov, Sergej

PATENT ASSIGNEE(S): Deutsches Krebsforschungszentrum Stiftung des Offentlichen Rechts, Germany

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9957150	A2	19991111	WO 1999-DE1350	19990505
WO 9957150	A3	20000622		
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 19819846	A1	19991111	DE 1998-19819846	19980505
CA 2331641	AA	19991111	CA 1999-2331641	19990505
AU 9948960	A1	19991123	AU 1999-48960	19990505
EP 1078004	A2	20010228	EP 1999-932626	19990505
R:	AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE			
JP 2002513805	T2	20020514	JP 2000-547118	19990505
PRIORITY APPLN. INFO.:			DE 1998-19819846	A 19980505

AB The invention relates to a multivalent Fv **antibody construct** comprising at least four variable domains which are connected to one another via peptide linkers 1, 2 and 3. The invention also relates to expression plasmids which code for such an Fv **antibody construct**. In addition, the invention relates to a method for producing the Fv **antibody constructs** and to the use thereof. The invention is based on the discovery that the stability of Fv constructs are enhanced when they are in the form of single-chain dimers in which the 4 variable domains are connected via 3 peptide linkers. The Fv construct folds with itself when the middle peptide linker contains 10-30 amino acids. However, when the middle peptide linker contains 10 or fewer amino acids the Fv construct folds with another Fv construct thus producing a multivalent multimer. These Fv constructs may addnl. be multispecific. For example, Fv dimers and tetramers targeting both CD3 and CD19 antigens were prepared with recombinant Escherichia coli and Pichia pastoris.

IT 250245-29-5P 250245-35-3P

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(amino acid sequence; multivalent Fv **antibody constructs** containing at least four variable domains and their use in diagnosis and therapy)

IT 149298-29-3 249509-02-2

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)  
(peptide linker; multivalent Fv **antibody constructs** containing at least four variable domains and their use in diagnosis and therapy)

E31 THROUGH E60 ASSIGNED

FILE 'REGISTRY' ENTERED AT 14:46:27 ON 23 AUG 2005

L4 30 SEA FILE=REGISTRY ABB=ON PLU=ON (149298-29-3/BI OR  
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502771-44-0/BI OR 615863-97-3/BI OR 616522-70-4/BI OR  
616522-72-6/BI OR 616522-74-8/BI OR 809295-95-2/BI OR  
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809296-27-3/BI OR 809296-32-0/BI OR 809296-33-1/BI OR  
809297-13-0/BI OR 809297-31-2/BI OR 817294-06-7/BI OR  
817317-86-5/BI OR 855815-94-0/BI)

L4 ANSWER 1 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN

RN 855815-94-0 REGISTRY

CN 59: PN: WO2005058236 PAGE: 62/79 unclaimed protein (9CI) (CA INDEX NAME)

SQL 622

MF Unspecified

CI MAN

REFERENCE 1: 143:76835

L4 ANSWER 2 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN

RN 817317-86-5 REGISTRY  
CN Protein MYX12\_4863 (Myxococcus xanthus strain DK1622) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 2553: PN: US6833447 SEQID: 14554 claimed protein  
SQL 319  
MF Unspecified  
CI MAN

REFERENCE 1: 142:87720

L4 ANSWER 3 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN

RN 817294-06-7 REGISTRY

CN Protein MYX12\_2448 (Myxococcus xanthus strain DK1622) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 139: PN: US6833447 SEQID: 12139 claimed protein  
SQL 198  
MF Unspecified  
CI MAN

REFERENCE 1: 142:87720

L4 ANSWER 4 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN

RN 809297-31-2 REGISTRY

CN 84: PN: WO2004108760 TABLE: 1 unclaimed sequence (9CI) (CA INDEX NAME)

SQL 220  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 5 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN

RN 809297-13-0 REGISTRY

CN 21: PN: WO2004108760 SEQID: 21 unclaimed protein (9CI) (CA INDEX NAME)

SQL 140  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 6 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN

RN 809296-33-1 REGISTRY

CN Somatotropin (human signal peptide) fusion protein with 28-140-neublabin (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 53: PN: WO2004108760 SEQID: 53 claimed protein  
SQL 139  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 7 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN

RN 809296-32-0 REGISTRY

CN Somatotropin (human signal peptide) fusion protein with neublabin (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 52: PN: WO2004108760 SEQID: 52 claimed protein  
SQL 166  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 8 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809296-27-3 REGISTRY  
CN Signal peptide (synthetic) fusion protein with 28-140-neublastin  
(human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 46: PN: WO2004108760 SEQID: 46 claimed protein  
SQL 132  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 9 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809296-26-2 REGISTRY  
CN Signal peptide (synthetic) fusion protein with Neublastin (human)  
(9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 45: PN: WO2004108760 SEQID: 45 claimed protein  
SQL 159  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 10 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809296-21-7 REGISTRY  
CN Albumin (Rattus norvegicus signal peptide) fusion protein with  
28-140-neublastin (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 39: PN: WO2004108760 SEQID: 39 claimed protein  
SQL 131  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 11 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809296-20-6 REGISTRY  
CN Albumin (Rattus norvegicus signal peptide) fusion protein with  
neublastin (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 38: PN: WO2004108760 SEQID: 38 claimed protein  
SQL 158  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 12 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809296-15-9 REGISTRY  
CN Immunoglobulin (Mus musculus signal peptide) fusion protein with

neublastin (human) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 31: PN: WO2004108760 SEQID: 31 claimed protein  
SQL 159  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 13 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809296-09-1 REGISTRY  
CN Neublastin (human signal peptide) fusion protein with  
28-140-neublastin (human) (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 26: PN: WO2004108760 SEQID: 26 claimed protein  
SQL 152  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 14 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809296-08-0 REGISTRY  
CN Neublastin (human signal peptide) fusion protein with Neublastin  
(human) (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN (1-39), (81-220)-Neublastin, prepro- (human)  
CN 25: PN: WO2004108760 SEQID: 25 claimed protein  
SQL 179  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 15 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809296-00-2 REGISTRY  
CN 28-140-Neublastin (human) (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 14: PN: WO2004108760 SEQID: 14 claimed protein  
SQL 113  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 16 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809295-99-6 REGISTRY  
CN 25-140-Neublastin (human) (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 13: PN: WO2004108760 SEQID: 13 claimed protein  
SQL 116  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 17 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 809295-96-3 REGISTRY  
CN Neublastin, prepro- (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 10: PN: WO2004108760 SEQID: 10 claimed protein  
SQL 220  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 18 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **809295-95-2** REGISTRY  
CN Immunoglobulin (Mus musculus immunoglobulin) fusion protein with  
28-140-neublabin (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 9: PN: WO2004108760 SEQID: 9 claimed protein  
SQL 132  
MF Unspecified  
CI MAN

REFERENCE 1: 142:50242

L4 ANSWER 19 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **616522-74-8** REGISTRY  
CN p53 (protein) (human) fusion protein with 1-270-gene chk1 protein  
kinase (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 7: PN: WO03087394 SEQID: 7 claimed protein  
SQL 686  
MF Unspecified  
CI MAN

REFERENCE 1: 139:334817

L4 ANSWER 20 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **616522-72-6** REGISTRY  
CN p53 (protein) (human) fusion protein with 60-431-gene sgk protein  
kinase (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 5: PN: WO03087394 SEQID: 5 claimed protein  
SQL 788  
MF Unspecified  
CI MAN

REFERENCE 1: 139:334817

L4 ANSWER 21 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **616522-70-4** REGISTRY  
CN p53 (protein) (human) fusion protein with 1-378-gene Myt1 protein  
kinase (human) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 3: PN: WO03087394 SEQID: 3 claimed protein  
SQL 794  
MF Unspecified  
CI MAN

REFERENCE 1: 139:334817

L4 ANSWER 22 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **615863-97-3** REGISTRY  
CN p53 (protein) (human) fusion protein with gene YAK3 protein kinase

(human) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 1: PN: WO03087394 SEQID: 1 claimed protein  
SQL 801  
MF Unspecified  
CI MAN

REFERENCE 1: 139:334817

L4 ANSWER 23 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 502771-44-0 REGISTRY  
CN Immunoglobulin, anti-(human CD19 (antigen)) (mouse clone DSM-14471  
single-chain precursor) fusion protein with immunoglobulin,  
anti-(human CD3 (antigen)) (mouse single-chain) (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 3: PN: EP1293514 FIGURE: 7 claimed protein  
SQL 562  
MF Unspecified  
CI MAN

REFERENCE 1: 138:253715

L4 ANSWER 24 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 502771-42-8 REGISTRY  
CN Immunoglobulin, anti-(human CD3 (antigen)) (mouse clone DSM-14470  
single-chain precursor) fusion protein with immunoglobulin,  
anti-(human CD19 (antigen)) (mouse single-chain) (9CI) (CA INDEX  
NAME)

OTHER NAMES:  
CN 1: PN: EP1293514 FIGURE: 6 claimed protein  
SQL 562  
MF Unspecified  
CI MAN

REFERENCE 1: 138:253715

L4 ANSWER 25 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 457048-38-3 REGISTRY  
CN L-Serine, L-tryptophyl-L-leucyl-L-glutaminyglycylglycyl-L-  
prolylglycyl-L-seryl-L-seryl- (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 2: PN: WO02068599 SEQID: 2 unclaimed sequence  
SQL 10  
MF C42 H62 N12 O15

REFERENCE 1: 137:214226

L4 ANSWER 26 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 456543-55-8 REGISTRY  
CN L-Proline, L-tryptophyl-L-leucyl-L-glutaminyglycylglycyl-L-  
prolylglycyl-L-seryl-L-seryl-L-seryl-L-isoleucyl-L-phenylalanyl-L-  
cysteinyl-L- $\alpha$ -glutamyl-L-seryl-L-tyrosylglycylglycyl-L-valyl-L-  
tyrosyl-L-asparaginyglycyl-L-asparaginy-L- $\alpha$ -glutamyl-L- $\alpha$ -  
aspartyl-L-leucyl-L-isoleucyl-L-leucyl-L-glutaminyl-L-phenylalanyl-L-  
tryptophyl-L-tryptophyl-L-isoleucyl-L-leucyl-L-arginyl-L-alanylglycyl-  
L-histidyl-L-methionyl-L-valyl-L-alanyl-L-tyrosyl-L- $\alpha$ -aspartyl-L-  
threonyl- (9CI) (CA INDEX NAME)

OTHER NAMES:  
CN 74: PN: WO02068599 FIGURE: 1 unclaimed sequence

SQL 45  
MF Unspecified  
CI MAN

REFERENCE 1: 137:214226

L4 ANSWER 27 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **250245-35-3** REGISTRY  
CN Immunoglobulin, anti-(human CD3 antigen/CD19 antigen) (mouse clone pDISC3x19-SL Fv fragment tetramer precursor) fusion protein with gene c-myc protein epitope fusion protein with hexahistidine peptide (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN 4: PN: WO9957150 SEQID: 4 claimed protein  
SQL 539  
MF Unspecified  
CI MAN

REFERENCE 1: 131:350246

L4 ANSWER 28 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **250245-29-5** REGISTRY  
CN Immunoglobulin, anti-(human CD3 antigen/CD19 antigen) (mouse clone pDISC3x19-LL Fv fragment dimer precursor) fusion protein with gene c-myc protein epitope fusion protein with hexahistidine peptide (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN 2: PN: WO9957150 SEQID: 2 claimed protein  
SQL 554  
MF Unspecified  
CI MAN

REFERENCE 1: 131:350246

L4 ANSWER 29 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **249509-02-2** REGISTRY  
CN L-Serine, glycylglycyl-L-prolylglycyl- (9CI) (CA INDEX NAME)  
SQL 5  
MF C14 H23 N5 O7

REFERENCE 1: 131:350246

L4 ANSWER 30 OF 30 REGISTRY COPYRIGHT 2005 ACS on STN  
RN **149298-29-3** REGISTRY  
CN L-Serine, glycylglycylglycylglycyl-L-serylglycylglycylglycylglycyl-L-serylglycylglycylglycylglycyl-L-serylglycylglycylglycylglycyl- (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN 115: PN: US6297051 SEQID: 116 unclaimed protein  
CN 116: PN: US6297041 SEQID: 116 unclaimed protein  
CN 118: PN: WO0024913 SEQID: 116 claimed protein  
CN 11: PN: CN1364898 PAGE: 3 claimed protein  
CN 120: PN: WO2005035751 SEQID: 120 unclaimed sequence  
CN 121: PN: US20040002450 SEQID: 123 unclaimed protein  
CN 123: PN: US20040001822 SEQID: 123 unclaimed protein  
CN 125: PN: US20040001839 SEQID: 123 unclaimed protein  
CN 149: PN: US20050112642 SEQID: 149 unclaimed sequence  
CN 151: PN: US20050009750 SEQID: 149 unclaimed sequence  
CN 159: PN: WO02053700 SEQID: 123 unclaimed protein

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CN 16: PN: WO03033666 SEQID: 16 unclaimed protein  
CN 179: PN: WO02059264 SEQID: 123 claimed protein  
CN 19: PN: WO2004020639 SEQID: 20 unclaimed protein  
CN 1: PN: WO03051926 PAGE: 7 unclaimed protein  
CN 20: PN: US20040131591 SEQID: 20 unclaimed protein  
CN 20: PN: WO2004044168 SEQID: 20 unclaimed protein  
CN 21: PN: US20030082561 SEQID: 21 unclaimed protein  
CN 21: PN: WO0208286 SEQID: 21 unclaimed protein  
CN 23: PN: WO2004067706 SEQID: 84 unclaimed protein  
CN 29: PN: WO2004067707 SEQID: 29 unclaimed protein  
CN 32: PN: US20050074865 SEQID: 31 unclaimed sequence  
CN 3: PN: US20030152913 SEQID: 4 unclaimed protein  
CN 3: PN: US20040063912 SEQID: 30 claimed protein  
CN 3: PN: WO03087163 SEQID: 2 unclaimed protein  
CN 4: PN: US20030206909 SEQID: 4 unclaimed protein  
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CN 54: PN: US6011002 SEQID: 55 unclaimed protein  
CN 75: PN: WO0200729 SEQID: 75 unclaimed protein  
CN 97: PN: US20040235011 SEQID: 84 unclaimed sequence  
CN 99: PN: WO2004067743 SEQID: 84 unclaimed protein  
CN 9: PN: WO02088733 SEQID: 9 unclaimed protein  
CN PN: WO9948924 SEQID: 14 unclaimed protein  
SQL 20  
MF C44 H70 N20 O25

REFERENCE 1: 143:2236  
REFERENCE 2: 142:409732  
REFERENCE 3: 142:369831  
REFERENCE 4: 142:107824  
REFERENCE 5: 142:1780  
REFERENCE 6: 141:237749  
REFERENCE 7: 141:185966  
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REFERENCE 9: 141:185923  
REFERENCE 10: 141:87790

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=> d his ful

(FILE 'HOME' ENTERED AT 14:39:09 ON 23 AUG 2005)  
DEL HIS Y  
D COST

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FILE 'CAPLUS' ENTERED AT 14:44:40 ON 23 AUG 2005  
L2 1481 SEA ABB=ON PLU=ON L1  
L\*\*\* DEL 5 S L2 AND LITTLE ?/AU  
L\*\*\* DEL 3 S L3 AND ANTIBOD?  
D TI AU 1-3  
L\*\*\* DEL 530 S L2 AND ANTIBOD?  
L\*\*\* DEL 30 S L3 AND CONSTRUCT  
L3 8 SEA ABB=ON PLU=ON L2 AND ANTIBOD?(S)CONSTRUCT  
D 1-8 .BEVSTR  
SEL HIT L3 1-8 RN

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457048-38-3/BI OR 502771-42-8/BI OR 502771-44-0/BI OR  
615863-97-3/BI OR 616522-70-4/BI OR 616522-72-6/BI OR  
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855815-94-0/BI)  
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D 1-30 .BEVREG

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L5 0 SEA ABB=ON PLU=ON L4

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#### FILE REGISTRY

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DICTIONARY FILE UPDATES: 22 AUG 2005 HIGHEST RN 861291-85-2

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\*\*\*\*\*

\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*

Searcher : Shears 571-272-2528

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FILE RELOADED: 19 October 2003.

FILE EMBASE

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\*  
\*\*\*\*\*

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FILE LAST UPDATED: 22 Aug 2005 (20050822/ED)

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The MEDLINE reload for 2005 is now available. For details enter HELP  
RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>  
[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the  
MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

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FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 August 2005 (20050817/ED)